YP-VX1

Voice Recorder

user manual

imagine the possibilities

Thank you for purchasing this Samsung product. To receive a more complete service, please register your product at

www.samsung.com/register

SAMSUNG

Using this manual

- Some of the contents in this manual may differ from your recorder depending on the firmware installed. Some of the contents may be changed without prior notice.
- Your recorder and screens may differ from the illustrations in this manual.
- To view the special features of your recorder, see "Special features of your recorder" on page 3.
- To view troubleshooting, see "Troubleshooting" on page 40.

Icons used in this manual

Icon	Description
Note	Notes, usage tips, or additional information
Caution	Safety warnings and precautions
< >	Menu names or text on the screen ; for example: <Yes>
[ ]	Buttons; for example: [⮌] (represents the Back button)

Safety information

This manual describes how to properly use your new voice recorder. Read it carefully to avoid damaging the recorder and injuring yourself. Pay particular attention to the following serious warnings.

PROTECT YOURSELF

- Do not disassemble, repair, or modify this product on your own.

- Do not get the product wet or drop it in water. If the product gets wet, do not switch it on because you could get an electric shock.
- Do not use the product during a thunderstorm, as it may cause malfunction or a risk of electric shock.

- Do not use the earphones while you are driving a bicycle, automobile or motorcycle.
  It can cause a serious accident, and furthermore, is prohibited by law in some areas.
  Using the earphones while walking or jogging on a road, in particular, on a crosswalk can lead to a serious accident.
- For your safety, make sure the earphone cable does not get in the way of your arm or other surrounding objects while you are taking exercise or a walking.

- Do not place the product in damp, dusty, or sooty areas because these environments could lead to fire or electric shock.

- Do not use the product if the screen is cracked or broken. Broken glass or acrylic could cause injury to your hand or face. Bring the product to a Samsung service centre to replace the screen. Damage caused by careless handling will void the warranty.

PROTECT YOURSELF

- Using earphones or headphones for an extended time may cause serious damage to your hearing.
  If you are exposed to sound louder than 85db for an extended time, you may adversely affect your hearing. The louder the sound is, the more seriously damaged your hearing may be (an ordinary conversation is between 50 to 60 db and road noise is approximately 80 db).
  You are strongly advised to set the volume level to medium (the medium level is usually less than 2/3 of the maximum).
- If you feel a ringing in your ear(s), lower the volume or stop using the earphones or headphones.

- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

PROTECT YOUR RECORDER

- Do not leave the recorder in temperatures above 35° C (95° F), such as a sauna or a parked car.
- Do not cause excessive impact on the recorder by dropping it.
- Do not place heavy objects on top of the recorder.
- Prevent any foreign particles or dust from entering into the product.
- Do not place the product near magnetic objects.

- Be sure to backup important data. Samsung is not responsible for data loss.
- Use only accessories provided by or approved by Samsung.

- Do not spray water on the product. Never clean the product with chemical substances such as benzene or thinner, as it may cause fire, electric shock or deteriorate the surface.

- Do not remove the batteries during the recording. Otherwise, it may cause serious damage not only to data but also to the system.
- Failure to follow these instructions may lead to physical injuries or damage to the recorder.

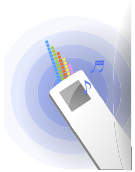
- When printing this user manual, we recommend that you print in color and check “Fit to Page” in the print option for better viewing.

Special features of your recorder

Extended recording time in different recording qualities

Customizable microphone function according to various environments

Adjustable playback speed with original sound quality!



Powerful sound with a high performance built-in speaker

Listen to true three-dimensional sound with the Samsung Digital Natural Sound engine (DNSe™)

YP-VX1

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Use basic functions

Learn to perform basic operations with your recorder.

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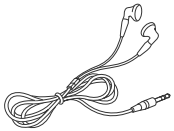
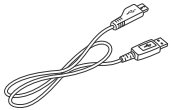
What's included

Check your product box for the following items:

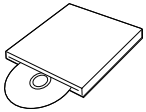
Voice Recorder



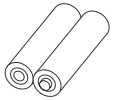
Earphones



USB cable



Installation CD

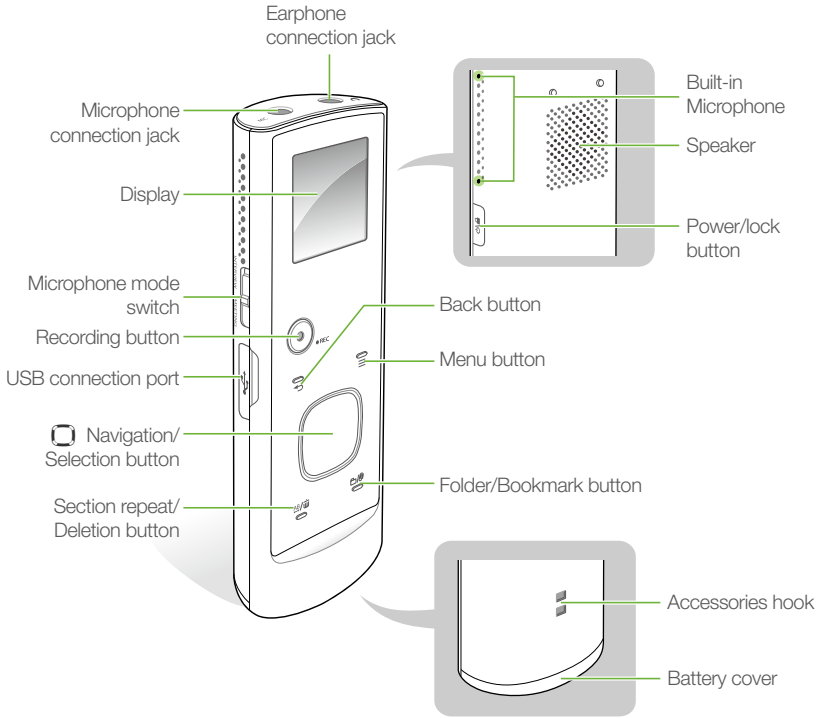


AAA /LR03 Batteries

Note

- The items supplied with your recorder may appear different from the illustrations in this manual.
- You can obtain additional accessories from your local Samsung dealer.

Your voice recorder



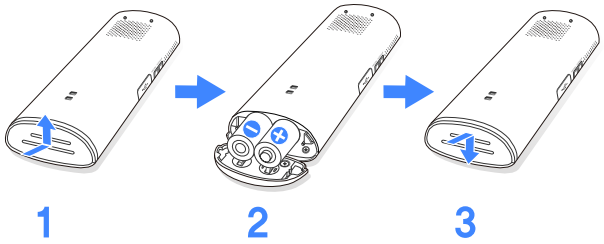
Button functions

Button		Function	
	Recording	• Start voice recording (press and hold) • Stop voice recording	
	Back	• Return to the previous screen • Return to the main menu screen (press and hold)	
	Menu	Open a list of options available in the current menu	
	Section repeat/ Deletion	• Repeat a section • Delete the selected file (press and hold)	
	Folder/ Bookmark	• Select a folder to save voice files • Add a bookmark (press and hold)	
	Navigation/ Selection		Scroll up, down, left, or right on the screen
		(Centre)	• Select the highlighted menu or option • Begin or pause playback
		(Up/Down)	Adjust the volume
		(Left/Right)	• Skip to the previous/next file • Search backward/forward (press and hold)

Button		Function
	Interview mode	Slide up to run the interview mode
	Meeting mode	Slide down to run the meeting mode
	Power/lock	• Turn your recorder on and off (press and hold) • Lock the buttons

Inserting the batteries

1. Slide open the battery cover in the arrow direction.
2. Insert batteries with correct polarity.
   - Be careful not to reverse the poles of the batteries.
3. Slide close the battery cover in the arrow direction.



Battery Life (AAA/LR03 type alkaline batteries)

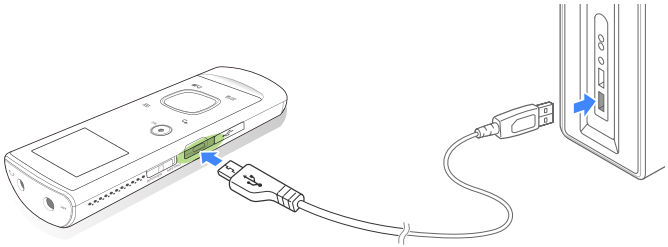
Mode		Time
Voice Recording Mode		A maximum of 20 hours
Play Mode	(Using the earphones)	A maximum of 50 hours
	(Using the speaker)	A maximum of 20 hours

Note

- When you do not use the recorder for a long time, remove the batteries.
- Actual battery time may vary according to the use conditions including the battery type, your settings and volume.

Connect to a PC

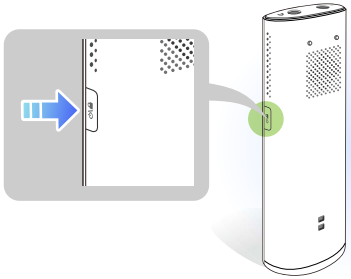
1. Connect the smaller end of the USB cable to the USB connection port of your recorder.
2. Connect the larger end of the USB cable to the USB port of a PC.



Turn your recorder on and lock the buttons

Turn your recorder on or off

Press and hold [⏻/🔒] to turn your recorder on or off.



Note

If you do not use your recorder for 5 minutes, it will automatically turn off.

Lock or unlock the buttons

Lock the buttons to prevent any unwanted operations while recording voice or playing files. Press [⏻/🔒] to lock or unlock the buttons.

Note

When the buttons are locked, 🔒 will appear at the top of the screen.

Access menus from the main menu screen

Select menus from the main menu screen.

When you turn on your recorder, the main menu screen appears and you can access menus or functions from the main menu screen.

▲ Main menu screen

1. In the main menu, use [ ] to scroll to a menu you want and press [ ].
2. Use the menu you select.
3. Press [ ] to return to the previous screen.
   - Press and hold [ ] to return to the main menu screen.

Manage files

Download files to your recorder, and search for or delete files stored in your recorder.

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Download files

Download files of your choice from your PC.

Caution

To avoid damage to your recorder and corruption of your files, do not disconnect the USB cable while files are being transferred.

Recommended PC requirements

CPU	Pentium 500 MHz or higher
Operating System	Windows 2000/XP/Vista
Others	• Resolution 1024 X 768 or higher • Microsoft DirectX 9.0 or later • Internet Explorer 6.0 or later

Installing EmoDio

1. Insert the Installation CD into the CD-ROM drive of your PC.
2. Click <Install now>.
   - Follow the instruction to start installation.
   - <EmoDio> installation starts and then creates an icon on your desktop when installation is complete.

Caution

- Ensure that you run the <EmoDio> installer in your PC's administrator account. Otherwise, <EmoDio> will not be installed. To find the administrator account, please refer to your PC's user manual.
- Use care when inserting the Installation CD into a vertically oriented CD-ROM drive.

Download files with EmoDio

Easily download music files provided by EmoDio.

Note

- EmoDio will be regularly upgraded for peak performance. Some features of EmoDio may change without prior notice.

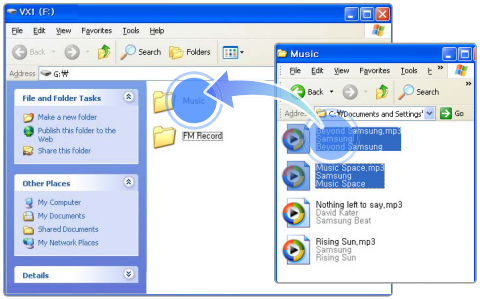
1. Connect your recorder to a PC using the USB cable.
   - EmoDio launches automatically on your PC.
2. Click <My PC> on the main screen of EmoDio.
3. Click <Add Folder> or <Add File> at the bottom of the My PC screen.
   - The list of the files stored in your PC appears.
4. Select a folder or file you want.
5. Select a file you want on the My PC screen and click .
   - The selected file is copied to your recorder.

Note

- You cannot use your recorder when connected to a PC.
- If you connect your recorder to a PC via a USB hub, the PC may not recognise your recorder. Connect your recorder directly into the USB port of a PC.
- When you format your recorder on a PC, use the FAT32 system. In Windows Vista, click <Restore device defaults> and then format your recorder.
- Music recognition technology and related data are provided by Gracenote® and Gracenote CDDB® Music Recognition Service℠.
- CDDB is a registered trademark of Gracenote. The Gracenote logo and logotype, the Gracenote CDDB logo and logotype, and the “Powered by Gracenote CDDB” logo are trademarks of Gracenote. Music Recognition Service and MRS are service marks of Gracenote.

Download files using your recorder as a removable disk

1. Connect your recorder to a PC using the USB cable.
2. On your PC, open <My Computer> and then the <VX1> folder.
3. Select a folder you want.
4. Select a music file in your PC and copy it to recorder.



Note

- The order of files on your PC will differ from the order of files in your recorder.
- Your recorder restricts playback of files protected by a DRM (Digital Rights Management) system.

What is DRM?

Digital Rights Management (DRM) is a technology and service to prevent illegal copies of the digital contents and protect the profit and rights of copyright holders or content producers.

Disconnect your recorder from a PC

Carefully follow the steps below when disconnecting your recorder from a PC to avoid data loss or damage to your recorder.

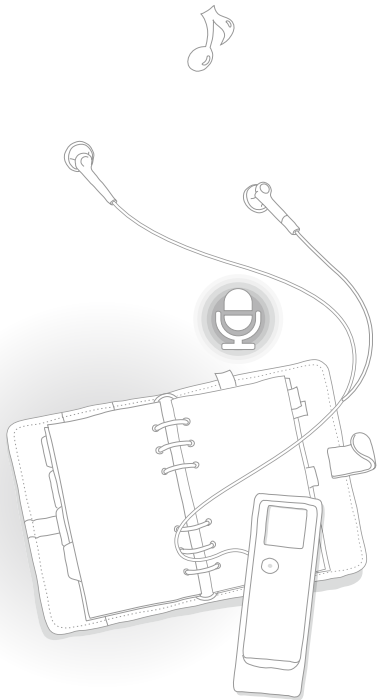
1. Click on the Windows taskbar.

2. Click the pop-up message.

3. Unplug the USB cable from your recorder and the PC.

Caution

- To avoid damage to your recorder and corruption of your files, do not disconnect the USB cable while files are being transferred.
- Do not disconnect your recorder when playing files stored in your recorder on a PC. Make sure that you stop playback and then disconnect your recorder from a PC.

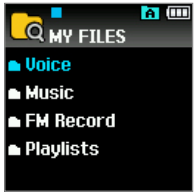


Manage files

Search for files in folders and delete files from your recorder.

Search for files

1. In the main menu, select .
2. Select a folder from the list.



3. Scroll through the file list.
4. Select a file you want.

Delete files

1. Select a folder from the list.
2. Select a file to delete.
3. Press and hold [AB/].
4. Select <Yes> from the pop-up window.

Voice Recording and Playback

You can record voice, and playback recording and music files.

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Voice Recording

With Voice Recording, you can record conversations in meetings and lectures as well as your own voice.

To record voice

1. In the main menu, select .
2. Press [/@] to select a folder to save the recording.
3. Press and hold [●].
   - The recording starts.
   - Press [■] to pause recording.

4. Press [●] to stop recording.
   - The recorded file is saved automatically.
5. Press [■] to play the recorded file.

Caution

- Do not remove the batteries during the recording.
  Otherwise, it may cause serious damage not only to data but also to the system.
- When making voice recording, do not bring the earphones close to you as this may cause noise in your recorded file.

Note

- Even when the power is off, press and hold the [⊙] button to turn the recorder back on and start recording.
- When the battery is low, you cannot record voice memos.
- Up to 400 voice files can be saved in one voice folder.
- The recorded files will be saved in <MY FILES> → <Voice>.
- You can use the external microphone (optional, Φ3.5) for voice recording, or line-in cable (optional, Φ3.5) for recording music from a connected external device. When you connect the optional cable , the <Select Input> screen appears. Select the connected cable and start recording.

Recording Time

Recording quality	Capacity		
	1GB	2GB	4GB
LP	approx. 260 hours	approx. 520 hours	approx. 1040 hours
SP	approx. 65 hours	approx. 130 hours	approx. 260 hours
HQ	approx. 32 hours	approx. 65 hours	approx. 130 hours
SHQ	approx. 16 hours	approx. 32 hours	approx. 65 hours
UHQ	approx. 10 hours	approx. 21 hours	approx. 43 hours

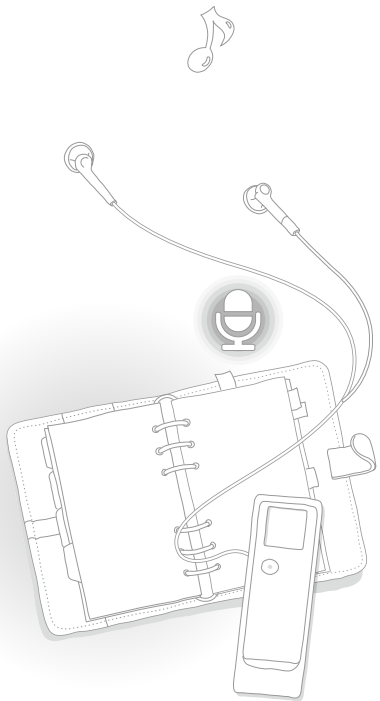
Voice Recording Screen

No.	Description
1	Recording/Standby/Pause
2	Name of the recording file
3	Recording Time
4	Recording Volume
5	Recording Folder
6	Voice recording menu – SP : Voice Recording Quality – VOR : VOR – NR : Noise Reduction – AGC : AGC
7	Remaining recording time

Use the voice recording options

1. Press [☰] in the Record Standby mode.
2. Customise the following options.

Option	Description
REC Quality	You can select the voice recording quality. – LP (Long Play) : Make recording for a long time in a low quality (8kbps) – SP (Standard Play) : Make recording in the standard quality (32kbps) – HQ (High Quality) : Make recording in a high quality (64kbps) – SHQ (Super High Quality) : Make recording in a quality higher than HQ (128kbps) – UHQ (Ultra High Quality) : Make recording in the best quality (192kbps)
VOR (Voice Only Recording)	Activate recording function where recording is activated when there is a sound, and pauses when there is no sound.
Noise Reduction	Filter out any other noise than voice for the clear recording.
AGC (Automatic Gain Control)	Control the microphone level to optimize sensitivity during the recording.



Listen to my recordings and music

Play your recorded files or the music files transferred to your recorder.

Listen to a desired file

1. In the main menu, select .
2. Select a folder you want.
3. Select a recorded or music file to play.
4. Control playback by using the buttons. See "Playback screen".

To	Do this
Skip to the previous or next file	Press [◁/▷] • If you press [◁] 3 seconds after the file plays, the playback will restart
Search backward or forward	Press and hold [◁/▷]
Pause or resume playback	Press [●]

Playback Screen

No.	Description
1	Playing status
2	Current folder
3	File Name
4	VOP ("VOP" on page 28)
5	File number/Total number of files
6	– NOR : Current sound effect – x1.0 : Play Speed – NOR :Repeat mode
7	Playing Time
8	Playing progress bar : is a bookmark that helps you mark a point within a file

Repeat a section of a file

You can select a section of a file to repeat.

1. Press [AB/🗑] at the beginning of the section you want to repeat.
   - <A -> displays at the right center of the screen.
2. Press [AB/🗑] at the end of the section you want to repeat.
   - <A - B> displays at the right center of the screen. Your recorder repeats the marked section.
3. To cancel repeating, press [AB/🗑] again.

Note

You can set the end point 3 seconds after the start point.

Apply a sound effect (DNSe)

1. During playback, press [☰].
2. Select <DNSe>.
3. Select a sound effect you want.
   - To select your own equalizer, select <myDNSe>.
   - Select an option and press [◯] to change the level. To save it, press [◉].

What is DNSe?

Digital Natural Sound Engine (DNSe) is a group of sound effects for products, developed by Samsung. It provides various sound settings to enhance the music you are listening to.

Insert a bookmark

You can insert a bookmark at the point you want and go to the bookmark to play from that point.

1. Select a file you want.
2. During playback, press [🗀/📎] at the point you want to bookmark.
   - A bookmark is inserted to the progress bar.

Note

A bookmark can be set one for each file, and you can set a maximum of 20 bookmarks.

Move to the bookmark point

1. In the main menu, select 📎.
2. Select a bookmarked file to play.
3. Listen to your recording or music.

Remove a bookmark

1. In the main menu, select .
2. Select a file to delete.
3. Press and hold [AB/].
4. Select <Yes> from the pop-up window.

Play a playlist

You can download a playlist from a PC and play it on your recorder.

1. In the main menu, select .
2. Select <Playlists>.
3. Select a playlist you want.
4. Select a file to play.

Note

- For information on how to create a playlist in <EmoDio> and transfer it to the recorder, refer to <EmoDio>.
- A file in the playlist can be deleted only during its playback.

Use the playback options

You can change options for playback.

1. During playback, press [☰].
2. Customise the following options.

Option	Description
VOP* (Voice Only Playback)	Set the recorder to play only if a sound or voice is detected. **Note** You can set <VOP> to on only during playback at normal speed.
Play Mode	Change the repeat mode.
Play Speed	Change the playback speed. **Note** • The adjusted play speed may differ from the actual speed, depending on the file. • <VOP> will be off if you select any playback speed other than <x1.0>.
Sound Effect	– <Audio Upscaler> : Set to upscale low resolution audio files for improved sound quality. – <Street Mode> : Set to make the music sound clearer by filtering out ambient noise.
DNSe	Select appropriate sound effects.

* Applicable only to voice recording files

Note

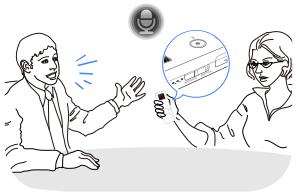
You cannot select <Sound Effect> and <DNSe> during playback through the speaker.

Microphone mode settings

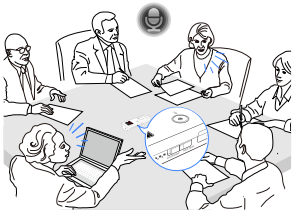
Use the microphone mode switch to adjust the settings for the environment.

Slide up the microphone mode switch to set the interview mode, and slide it down to set the meeting mode.

INTERVIEW MODE



MEETING MODE



FM Radio

You can listen to and record the FM radio.

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FM Radio

You can listen to and record the FM radio, as well as save radio stations.

Note

You must connect the earphones to your recorder to listen to the FM radio. The earphones serve as a radio antenna.

Listen to the FM radio

1. In the main menu, select .
2. Press [ ] to scan the radio stations.
   - Press [/] to scroll through radio frequencies.
   - Press and hold [/] to scan the available stations automatically.
3. Listen to the FM radio.

1	Radio mode (Manual mode/Preset mode)
2	Frequency for the current station
3	Mute indicator – Press [ ] to mute or unmute the FM radio
4	Frequency bar

Note

The FM radio may not tune frequencies for stations correctly depending on the signal status of your current region.

Record the FM radio

1. From the FM radio screen, press [☰].
2. Select <FM Recording>.
   - FM recording starts.
3. Press [●] to stop recording.
   - The recorded file is saved automatically.

Note

- The recorded files will be saved in <MY FILES> → <FM Record>.
- During the FM Radio recording, you cannot pause the recording.

Save radio stations

You can save your favourite radio stations to easily access them.

Save the current radio station

1. In Manual mode, press [☰].
2. Select <Add to Preset>.

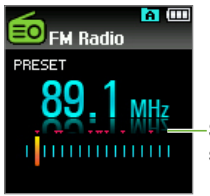
Save radio stations automatically

You can automatically search for available radio stations and save them as your favourites. You can save up to 30 radio stations.

1. In Manual mode, press [☰].
2. Select <Auto Preset>.
   - Automatic tuning begins. The radio stations located are saved in your favorites.

Listen to a favourite radio station

1. In Manual mode, press [☰].
2. Select <Go to Preset Mode>.



Saved favourite radio stations

3. Select a radio station you want.

Use the FM radio options

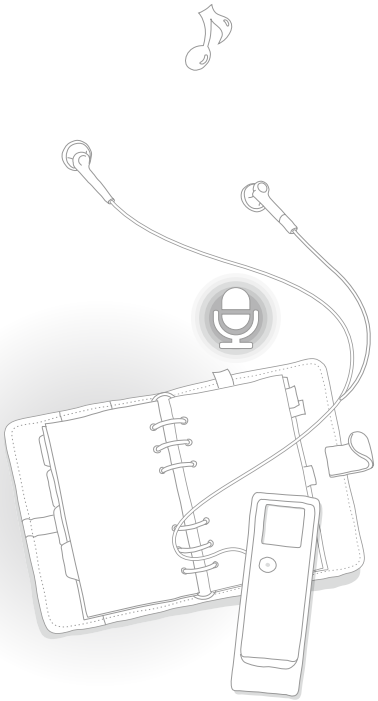
You can change options for using the FM radio.

1. From the FM radio screen, press [☰].
2. Customise the following options.

Option	Description
Go to Preset Mode*	Switch to Preset mode
Go to Manual Mode**	Switch to Manual mode
Add to Preset*	Save the current radio station.
Delete from Preset**	Delete a saved radio station.
Auto Preset	Search for and save available radio stations automatically (up to 30).
FM Reception	Adjust FM reception to receive more or fewer FM radio frequencies.
FM Recording	You can record an FM radio.
FM REC Quality	Select the recording quality for FM radio.

Option	Description
FM Region	Re-tune frequencies according to your region. **Note** • This option may not be available depending on your region. • If you change the region, the previously saved stations will be deleted.

* Available only in Manual mode
** Available only in Preset mode



Customise settings

Change your recorder's settings to match your preferences.

Settings 36

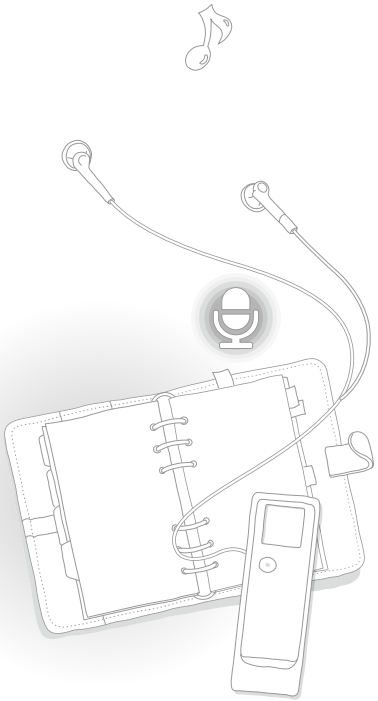
Settings

You can change your recorder's settings.

1. In the main menu, select .
2. Change the settings.

Menu	Description
Date & time	Set the current time and date. Scroll to a unit and press [ ] to change the time or date. To save the time and date, press [ ].
Display Off Time	Set how long the screen stays on when not in use.
Sleep	Set to automatically turn off your recorder after a specified period of time.
Language	Select a language for the display text.
Beep Sound	Turn the beep sound on or off when you press the buttons.
Volume Limit	Set to limit the volume of the earphones to protect your hearing. – <Off>: You can adjust the volume as you want. – <On>: You cannot set the volume to higher than 15.
LED Effect	Set the LED light on or off.
LCD Brightness	Adjust the brightness of the screen.
LCD Contrast	Adjust the contrast of the screen.
Default Set	Restore all settings to the factory settings.

Menu	Description
About	Check the system information of your recorder. – <Firmware Version>: View the version of the firmware installed in your recorder. – <Memory>: <Remaining> indicates the remaining capacity while <Total> indicates the total capacity. **Note** Regarding the Built-In Memory 1 GB = 1,000,000,000 bytes : actual formatted capacity may be less as the internal firmware uses a portion of the memory.



Appendix

View the maintenance, specifications, and troubleshooting for your recorder.

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Maintenance of your recorder

Carefully read the following to properly clean, store, or dispose of your recorder.

Cleaning

- When your recorder is dirty, wipe your recorder with a soft, clean and dry cloth.
- Do not apply cleaners to your recorder's surface. This may cause damage or affect the performance of the recorder.
- Do not clean your recorder with gasoline, benzene, thinner, WD-40, or other chemicals. This may cause damage to your recorder's surface.

Storing

Store your recorder in a well-ventilated area.

Disposing

- Dispose of wrapping materials, batteries, and electronic devices separately.
- The wrapping materials include paper and two kinds of plastics (PC, PE).

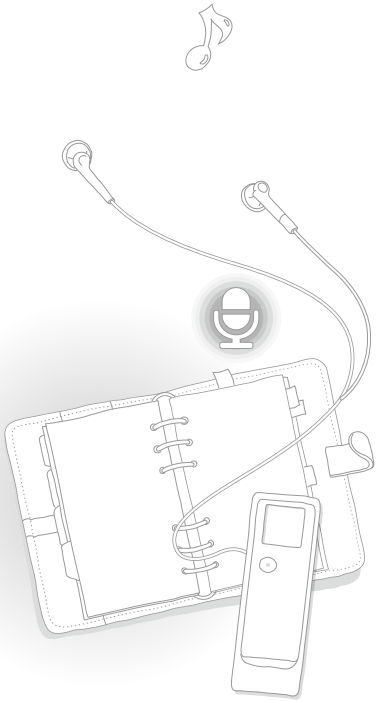
Troubleshooting

When you have a trouble using the recorder, try the following before contacting a service centre.

Problem	Solution
My recorder will not turn on.	• Your recorder will not turn on if the batteries are completely drained. Replace the batteries and turn on the recorder again.
The buttons do not work.	• Check if the buttons are locked. • Check if the buttons correspond to the functions you want to activate.
The screen does not display anything.	• The screen may not be visible under the direct rays of the sun. • The screen turns off automatically after the period of time you set in <Display Off Time> has elapsed.
My recorder turns off automatically.	If you do not use your recorder for 5 minutes after you pause the playback, it will automatically turn off.
Battery life differs from the manual.	• The battery running time may differ depending on the current sound mode or display settings. • The battery running time may shorten when your recorder was left in a high or low temperature.
EmoDio will not work on a PC.	Check if your PC meets PC requirements. See "Recommended PC requirements."

Problem	Solution
My recorder will not connect to a PC.	Run Windows Update on the PC. Select key updates and service packs and update all. When the update is completed, reboot the PC and reconnect.
The file transfer is too slow.	The file transfer rate may slow down if you formatted your recorder on Windows 2000. Reformat your recorder on Windows XP or Vista and try again. End all programs you are not using. Running multiple programs simultaneously can slow down the file transfer rate.
My recorder will not play any files.	• Check if any playable files are stored in your recorder. • Check if the files are damaged. • Check if there is enough battery power.
I cannot download files to my recorder.	• Check if the USB cable is correctly connected. Reconnect it. • Check if the memory is full.

Problem	Solution
Files or data are missing.	Check if you disconnected the USB cable while transferring files or data. This can cause data loss or fatal errors in your recorder. Samsung is not responsible for any damages resulting from data loss.
The playing time does not display correctly during playback.	This is normal if the currently playing file is of the VBR (Variable Bit Rate) format.



Specifications

Model Name		YP-VX1
Power		1.5V X 2 (AAA/LR03 Alkaline Battery)
File Compatibility		MPEG 1/2/2.5 Layer 3 (8kbps ~ 320kbps, 8kHz ~ 48kHz), WMA (48kbps ~ 192kbps, 8kHz ~ 48kHz)
Supported Number of Folders / Files		Recording : Folder: Max. 5, File: Max. 2000 (Max. 400 for each folder) Music : Folder: Max. 1000, File: Max. 4000 (excluding folder)
Earphones Output		20 mW/Ch. (based on 16 Ω)
Output Frequency Range		40 Hz ~ 20 kHz
Signal to Noise Ratio		90 dB with 20 kHz LPF (based on 1 kHz, 0 dB)
Recording Time		20 hours (based on Normal Sound Mode, SP Mode, Display Off, VOR Off, Noise Reduction Off, AGC Off)
Playing Time		Maximum of 50 hours for the earphones, Maximum of 20 hours for the speaker (based on MP3 128kbps, Volume: 15, Normal Sound Mode, Display Off)
Temperature Range for Operation		-5˚ C ~ 35˚ C (23˚ F ~ 95˚ F)
Case		Plastic
Weight		72.5 g (Including batteries)
Dimensions (WxHxD)		36.4 X 109.5 X 15.5 mm
Speaker	Power Output	600mW (8Ω)
	Impedance	8ohm +.- 15% at 2kHz 1V
	Frequency Range	40Hz ~ 20kHz
FM Radio	FM T.H.D	0. %
	FM Signal to Noise Ratio	60 dB
	FM Useable Sensitivity	38 dBμ

* Some of the contents in this manual are subject to change without prior notice for further improvement.

Correct disposal of this product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

License

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Contact Samsung World Wide

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG Customer Care Centre.

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CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com/ca
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ARGENTINE	0800-333-3733	www.samsung.com/ar
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ITALIA	800-SAMSUNG (726-7864)	www.samsung.com/it
LUXEMBURG	02 261 03 710	www.samsung.com/lu
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POLAND	0 801 1SAMSUNG (172678), 022-607-93-33	www.samsung.com/pl

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